MULTIMEDIA UNIVERSITY

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 1, 2016/2017

DMA5018 – MULTIMEDIA APPLICATIONS

(DIT / DBIS)

13 OCTOBER 2016
2.30 p.m – 4.30 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **2** pages with **5** questions.
2. Answer **ALL** questions.
3. Please write all your answers in the answer booklet provided.

QUESTION 1 [20 MARKS]

a) Tugiman as a multimedia designer wants to convince his project manager to use multimedia elements for their product demonstration.

i) Discuss **THREE** benefits of using multimedia elements for a product demonstration. (6 Marks)

ii) Suggest **FOUR** examples of multimedia authoring software that can be used in creating a video of product demonstration, assuming there is no issues on cost and budgeting. (4 Marks)

b) List **SIX** general features offered in both painting and drawing software. (6 Marks)

c) Discuss the difference between the following image authoring software:

i) Painting software (2 Marks)

ii) Drawing software (2 Marks)

QUESTION 2 [20 MARKS]

a) The manner in which multimedia project materials are organized has a great impact on the viewer. Discuss **FIVE** importance of navigation maps in designing multimedia project structure. (10 Marks)

b) A good multimedia project must have a well-planned project timeline so that a plan of action can become the road map for production. Explain **FIVE** factors that makes scheduling is difficult to be on track. (10 Marks)

QUESTION 3 [20 MARKS]

a) Suggest **FIVE** considerations for selecting text fonts for a multimedia project. (10 Marks)

b) Name each part of the **SIX** labels in *Figure 1* below: (6 Marks)

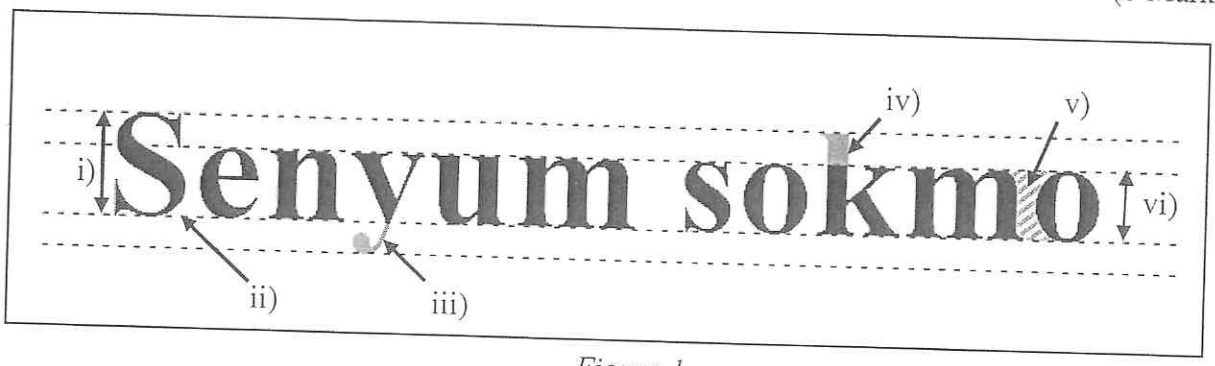

Figure 1

c) State **ONE** advantage and **ONE** disadvantage each for bitmap and vector graphics. (4 Marks)

QUESTION 4 [20 MARKS]

a) State the **FOUR** steps to be followed in creating animation. (8 Marks)

b) Define "*cel animation*". (2 Marks)

c) Calculate each audio file size in Kilobytes. Show each step of your calculation. (6 Marks)

	Duration	Sampling rate	Sound Resolution	Channel
i)	1 minute	44,100 Hz	24-bit	Mono
ii)	15 seconds	22.05 kHz	2 bytes	Stereo

d) Discuss **TWO** advantages of audio MIDI. (4 Marks)

QUESTION 5 [20 MARKS]

a) Define codec and provide **FOUR** common containers for video. (6 Marks)

b) MPEG is a real-time video compression algorithm where it includes numerous multimedia capabilities and is preferred standard. Explain the characteristics of MPEG-4. (6 Marks)

c) Titles and text are often used to introduce a video and its content. Provide **FOUR** guidelines for creating good titles in a video. (8 Marks)

End of Page.